Performance Data Sheet

AWF5522EXG

General Information

Model	AWF5522EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	5630	4650					
	Watts	850	835					
	Amps	1.61	1.61					
	Lb/h	72.9	62.4					
-10	Btu/h	6930	5930	4970				
	Watts	955	950	937				
	Amps	1.71	1.72	1.72				
	Lb/h	89.2	79.0	69.2				
-5	Btu/h	8350	7310	6310	5350			
	Watts	1050	1050	1050	1040			
	Amps	1.80	1.82	1.83	1.83			
	Lb/h	107	96.8	87.1	77.3			
0	Btu/h	9900	8810	7760	6740	5750		
	Watts	1130	1150	1160	1160	1140		
	Amps	1.88	1.91	1.93	1.94	1.92		
	Lb/h	126	116	106	96.4	86.2		
5	Btu/h	11600	10400	9330	8240	7170		
	Watts	1200	1230	1250	1260	1260		
	Amps	1.94	1.98	2.02	2.05	2.05		
	Lb/h	146	136	127	117	106		
10	Btu/h	13400	12200	11000	9850	8700	7550	6390
	Watts	1250	1300	1340	1360	1380	1380	1350
	Amps	1.99	2.04	2.10	2.14	2.16	2.15	2.10
	Lb/h	168	158	149	139	128	117	104
15	Btu/h	15500	14200	12900	11600	10300	9090	7820
	Watts	1300	1360	1410	1450	1480	1500	1490
	Amps	2.03	2.10	2.16	2.22	2.27	2.28	2.26
	Lb/h	192	182	172	162	151	139	126
20	Btu/h	17700	16300	14900	13500	12100	10700	9360
	Watts	1330	1410	1470	1530	1580	1610	1620
	Amps	2.06	2.14	2.22	2.30	2.36	2.40	2.40
	Lb/h	218	208	198	187	176	163	150

25	Btu/h	20100	18600	17000	15500	14000	12500	11000
	Watts	1350	1440	1530	1610	1670	1720	1740
	Amps	2.08	2.17	2.27	2.37	2.45	2.51	2.54
	Lb/h	247	236	225	214	202	189	175
30	Btu/h	22800	21100	19400	17800	16100	14500	12800
	Watts	1360	1470	1570	1670	1750	1810	1860
	Amps	2.09	2.19	2.31	2.42	2.53	2.62	2.68
	Lb/h	277	266	255	243	231	217	202
35	Btu/h	25700	23800	22000	20200	18400	16600	14700
	Watts	1360	1490	1610	1720	1820	1910	1970
	Amps	2.09	2.21	2.34	2.48	2.61	2.72	2.80
	Lb/h	311	299	287	275	261	247	231
40	Btu/h	28800	26800	24800	22800	20800	18800	16800
	Watts	1350	1500	1640	1770	1890	1990	2080
	Amps	2.09	2.22	2.37	2.52	2.67	2.81	2.93
	Lb/h	347	334	322	308	294	279	262
45	Btu/h	32200	30000	27800	25700	23500	21300	19100
	Watts	1330	1500	1650	1810	1940	2070	2180
	Amps	2.08	2.22	2.39	2.56	2.74	2.90	3.04
	Lb/h	385	372	359	345	329	313	295
50	Btu/h	35900	33500	31100	28700	26400	24000	21600
	Watts	1300	1480	1660	1840	2000	2140	2270
	Amps	2.06	2.22	2.40	2.59	2.79	2.98	3.16
	Lb/h	427	413	399	384	367	350	330
55	Btu/h	39800	37200	34600	32100	29500	26900	24200
	Watts	1260	1460	1660	1860	2040	2210	2360
	Amps	2.04	2.21	2.41	2.63	2.85	3.07	3.27
	Lb/h	472	457	442	426	408	389	369

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.136694E+04	1.008830E+03	2.697555E+00	2.402555E+02
C2	3.976911E+02	-3.178476E+00	1.832135E-02	3.280606E+00
C3	-1.869829E+02	-2.355339E+00	-3.491248E-02	-2.170736E+00
C4	5.292776E+00	-3.651754E-01	-3.112585E-04	4.754004E-02
C5	-7.388094E-01	2.004836E-01	-2.975875E-04	1.354211E-02
C6	6.897440E-01	8.593549E-02	4.500390E-04	1.283845E-02
C7	1.980388E-02	2.174564E-04	9.230521E-07	2.144040E-04
C8	-2.962502E-02	1.582397E-03	7.926587E-07	-2.027281E-04
C9	-2.303512E-03	3.062418E-04	3.004073E-06	-6.797183E-05
C10	-1.803273E-03	-4.754401E-04	-1.772984E-06	-4.537258E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWF5522EXG

General Information

Model	AWF5522EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	380V 3~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	4630	3820					
	Watts	698	686					
	Amps	1.61	1.61					
	Lb/h	59.9	51.3					
-10	Btu/h	5700	4870	4080				
	Watts	784	781	769				
	Amps	1.71	1.72	1.72				
	Lb/h	73.3	64.9	56.8				
-5	Btu/h	6860	6010	5190	4400			
	Watts	860	866	864	853			
	Amps	1.80	1.82	1.83	1.83			
	Lb/h	87.6	79.5	71.5	63.5			
0	Btu/h	8130	7240	6380	5540	4720		
	Watts	926	941	950	950	938		
	Amps	1.88	1.91	1.93	1.94	1.92		
	Lb/h	103	95.1	87.2	79.2	70.9		
5	Btu/h	9530	8580	7660	6770	5890		
	Watts	982	1010	1030	1040	1040		
	Amps	1.94	1.98	2.02	2.05	2.05		
	Lb/h	120	112	104	96.0	87.5		
10	Btu/h	11100	10000	9060	8100	7150	6200	5250
	Watts	1030	1070	1100	1120	1130	1130	1110
	Amps	1.99	2.04	2.10	2.14	2.16	2.15	2.10
	Lb/h	138	130	122	114	105	95.8	85.5
15	Btu/h	12700	11600	10600	9530	8500	7460	6430
	Watts	1060	1110	1160	1190	1220	1230	1220
	Amps	2.03	2.10	2.16	2.22	2.27	2.28	2.26
	Lb/h	158	150	142	133	124	114	104
20	Btu/h	14500	13400	12200	11100	9950	8830	7690
	Watts	1090	1150	1210	1260	1300	1320	1330
	Amps	2.06	2.14	2.22	2.30	2.36	2.40	2.40
	Lb/h	179	171	163	154	144	134	123

25	Btu/h	16500	15300	14000	12800	11500	10300	9050
	Watts	1110	1190	1260	1320	1370	1410	1430
	Amps	2.08	2.17	2.27	2.37	2.45	2.51	2.54
	Lb/h	203	194	185	176	166	155	144
30	Btu/h	18700	17300	16000	14600	13200	11900	10500
	Watts	1120	1210	1290	1370	1440	1490	1530
	Amps	2.09	2.19	2.31	2.42	2.53	2.62	2.68
	Lb/h	228	219	210	200	190	178	166
35	Btu/h	21100	19600	18100	16600	15100	13600	12100
	Watts	1120	1220	1320	1410	1500	1570	1620
	Amps	2.09	2.21	2.34	2.48	2.61	2.72	2.80
	Lb/h	255	246	236	226	215	203	190
40	Btu/h	23700	22000	20400	18700	17100	15500	13800
	Watts	1110	1230	1340	1450	1550	1640	1710
	Amps	2.09	2.22	2.37	2.52	2.67	2.81	2.93
	Lb/h	285	275	264	253	242	229	215
45	Btu/h	26500	24600	22900	21100	19300	17500	15700
	Watts	1090	1230	1360	1480	1600	1700	1790
	Amps	2.08	2.22	2.39	2.56	2.74	2.90	3.04
	Lb/h	317	306	295	283	271	257	242
50	Btu/h	29500	27500	25600	23600	21700	19700	17700
	Watts	1070	1220	1370	1510	1640	1760	1870
	Amps	2.06	2.22	2.40	2.59	2.79	2.98	3.16
	Lb/h	351	340	328	315	302	287	271
55	Btu/h	32700	30600	28500	26300	24200	22100	19900
	Watts	1030	1200	1370	1520	1670	1810	1940
	Amps	2.04	2.21	2.41	2.63	2.85	3.07	3.27
	Lb/h	388	376	363	350	335	320	303

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.755500E+04	8.285079E+02	2.697555E+00	1.973927E+02
C2	3.267415E+02	-2.610343E+00	1.832135E-02	2.695330E+00
C3	-1.536245E+02	-1.934336E+00	-3.491248E-02	-1.783467E+00
C4	4.348525E+00	-2.999025E-01	-3.112585E-04	3.905867E-02
C5	-6.070031E-01	1.646484E-01	-2.975875E-04	1.112613E-02
C6	5.666911E-01	7.057504E-02	4.500390E-04	1.054801E-02
C7	1.627079E-02	1.785874E-04	9.230521E-07	1.761533E-04
C8	-2.433980E-02	1.299553E-03	7.926587E-07	-1.665604E-04
C9	-1.892556E-03	2.515029E-04	3.004073E-06	-5.584533E-05
C10	-1.481563E-03	-3.904581E-04	-1.772984E-06	-3.727790E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature